Social and Health Indicators Profile

AADAC
Policy and Program Analysis

Alberta Alcohol and Drug Abuse Commission
An Agency of the Government of Alberta

93-01073/

SOCIAL AND HEALTH INDICATORS PROFILE OF ALCOHOL AND DRUG ABUSE COFACTORS AND OUTCOMES 1992 UPDATE

Wesley Slavik and Edward Sawka
POLICY AND PROGRAM ANALYSIS

Alberta Alcohol & Drug Abuse Commission
An Agency of the Government of Alberta
April, 1992

CONTENTS

PAGE(S)

INTRODUCTION ii

AADAC SERVICE AREA MAP iv

HIGHLIGHTS v

1. SUMMARY TABLE OF INDICATORS 1

2. ALCOHOL AND DRUG INDICATORS EXTERNAL TO AADAC 5

   2.1 DOLLARS SALES of ALCOHOLIC BEVERAGES FROM ALCB RETAIL OUTLETS 6

   2.2 ALCOHOL-RELATED DISEASES 8

   2.3 SUBSTANCE ABUSE-RELATED DEATHS 11

   2.4 ALCOHOL AND DRUG RELATED CRIMINAL OFFENSES 13

   2.5 ALCOHOL-RELATED TRAFFIC COLLISIONS 18

   2.6 TRIPLICATE (DRUG) PRESCRIPTION PROGRAM 20

3. AADAC ALCOHOL AND DRUG INDICATORS 22

   3.1 ALBERTA IMPAIRED DRIVER'S COURSE ATTENDANCE 23

   3.2 ADMISSIONS TO AADAC and FUNDED AGENCY FACILITIES 25

4. APPENDICES 27

   4.1 AADAC SERVICE AREA POPULATION BY AGE GROUPS 29

   4.2 AADAC SERVICE AREA SELECTED DEMOGRAPHIC INDICATORS 30

   4.3 GLOSSARY OF TERMS 31

INTRODUCTION

Purpose

This report provides a compilation of data from secondary sources on a range of selected indicators that profile alcohol and drug consumption and abuse in Alberta.

The report is an update of earlier reports produced in January, 1987 and March, 1990. The impetus for the original reports was to gather current information in a ready-to-use format as an internal planning tool for AADAC managers. This update report will serve both as an internal planning tool for AADAC managers and as a public information source.

The data have been grouped by AADAC's three service divisions and sub-grouped by the 26 service delivery areas within the divisions. A rank of 1 indicates that a rate or percentage calculated for a service area was the highest among all service areas, while a rank of 26 indicates the lowest calculated rate or percentage. Where necessary, rankings have been adjusted to accommodate service areas tied with the same rate or percentage, thus maintaining a uniform range of 1-26.

The indicators comprising this profile include:

- Dollar Sales of Alcoholic Beverages from ALCB Retail Outlets
- Alcohol-Related Diseases
- Substance Abuse-Related Deaths
- Alcohol-Related Crimes
- Alcohol-Related Collisions
- Triplicate Prescription Program Drugs Dispensed
- AADAC Impaired Driver's Course Attendance
- Admissions to AADAC and Funded Agency Facilities
- Alberta Population Demographics

All the data are presented as either percentages or per capita rates. Rates have been age-standardized to the most appropriate age groupings and a provincial rate for each table has also been calculated. The provincial rate is not an average of the 26 service area rates; rather it was calculated by dividing the total occurrences of the selected indicator by the total for the age group used in the table. As a result, the provincial rate may vary substantially from service area and AADAC service division rates.

Limitations

The tables in this report were produced from unrelated data sources that are administrative in nature and not research oriented. The data systems were established for differing purposes and with different systems and personnel. In addition, some tables cover different time periods and refer to different age groups. As such, the reader is advised to consider each table separately. Other important limitations are listed with each table and should be kept in mind when interpreting the information.

In addition, direct comparison between the 1990 version and this update of the report is not possible because of formatting changes and the addition of five service areas (Athabasca, Crowsnest Pass, Provost, Stettler and Whitecourt) in the fall of 1990. These new areas affected many previously existing service area boundaries.

Acknowledgments

The authors would like to acknowledge the assistance of various government departments and other sources utilized in the preparation of this report. These include:

- Alberta Liquor Control Board's 1990 Annual Report, for data on retail sales of beer, wine, and spirits.
- Alberta Health, Policy and Planning Services Division, Health Economics and Statistics Branch, for providing alcohol-related disease data.
- Alberta Health, Vital Statistics, for providing alcohol-related death data.
- Alberta Solicitor General, Planning, Policy and Projects Branch, Law Enforcement Division, for providing data on alcohol-related offences.
- Alberta Transportation and Utilities, Planning and Statistics Branch, Motor Transport Services Division, for providing traffic collision data.
- College of Physicians and Surgeons, Province of Alberta for providing Triplicate (Drug) Prescription Program data.
- Alberta Treasury, Bureau of Statistics, Statistical Services and Statistical Programs and Analysis, for providing AADAC service area population, square kilometre, and reported household income estimates and for providing AADAC service area postal code aggregations.
- AADAC Policy and Program Analysis for providing data on attendance at Alberta's impaired driver courses, "Planning Ahead" and "IMPACT," and Client Monitoring System data.
- AADAC Institutions and Funded Agencies for providing client admission figures.

AADAC
ALBERTA ALCOHOL AND DRUG ABUSE COMMISSION

FIELD SERVICES

- DIVISIONAL BOUNDARY
- DISTRICT BOUNDARY
- AREA BOUNDARY
- DIVISIONAL OFFICE
- DISTRICT OFFICE
- AREA OFFICE
- INSTITUTION
- FUNDED AGENCY (14)

Funded Agencies

1. Action North Recovery Centre
2. Bonnyville Indian Metis Rehabilitation
   - Fishing Lake Outpatient Centre
   - Elizabeth Settlement Outpatient Centre
3. Boys and Girls Club of Hinton
4. Calgary Alpha House Society
5. Cool-Aid Society of Grande Prairie
6. Distress Centre Drug Centre
7. Foothills Alcohol Action Society
8. George Spady Centre Society
9. Jellinek Society
10. McDougall House Association
11. Metis Indian Town Alcohol Association
    - Cadotte Lake
    - High Prairie
    - Little Buffalo Lake
    - Valleyview
12. Native Alcoholism Services
13. Native Counselling Services of Alberta
    - Calling Lake
    - Loon Lake
    - Peerless Lake
    - Trout Lake
14. Nechi Institute on Alcohol and Drug Education
15. O'Meara Rehabilitation Centre
16. Pastew Place Detoxification Centre
17. Poundmaker's Lodge
18. Recovery Acres Society (Edmonton)
19. Recovery Acres Society (Calgary)
20. Riverside Villa Association
21. Rocky Native Friendship Centre
22. The Centre: Salvation Army Rehabilitation Unit
23. South Country Alcohol and Drug Treatment Centre
24. Southern Alcare Society and Industries
25. Sunrise Residence Society
26. Veg-Al-Drug Society
27. Walter A. "Slim" Thorpe Recovery Centre
    - Wainwright Outpatient Centre

HIGHLIGHTS

* Per capita alcohol sales from ALCB outlets and warehouses, retail beer stores and private wine stores were fairly evenly distributed throughout the province. Areas highest on per capita alcohol sales were generally higher on average reported household income.

* The rate for hospital separations for alcohol-related liver diseases occurred uniformly throughout the province.

* The rate for deaths attributed to alcohol-related chronic liver disease and cirrhosis occurred uniformly throughout the province.

* Suicide rates, which serve as rough indicators of substance abuse were higher in the Northern Division.

* Impaired driving charges occurred at a higher rate in the northern areas.

* The rate for illicit drug possession charges occurred uniformly throughout the province.

* The occurrence rate of sexual and physical assault charges were higher in the northern areas.

* The occurrence rate of disturbing the peace and liquor act violation charges were higher in the northern areas.

* Alcohol-related injury and fatality traffic collisions were generally higher for northern service areas.

* The rate of drug prescriptions filled, as monitored by the Triplicate Prescription Program, occurred uniformly throughout the province.

* The rate of attendance for Alberta impaired driver's courses was much lower for southern service areas.

* Admission rates to AADAC and Funded Agency treatment facilities were distributed evenly throughout the province.

1. SUMMARY TABLE OF INDICATORS

1.1 RANKED ORDER SUMMARY TABLE OF SELECTED INDICATORS OF SUBSTANCE CONSUMPTION AND ABUSE.

Source:

Various sources and reporting periods as referenced prior to individual tables.

Notes:

- This table represents the position of each of the 26 service areas relative to each other, for the selected indicators presented in this report. These rankings correspond to the "Rank Order" as shown for each of the respective tables. This table enables the reader to see at a glance, how a service area ranked across all report indicators. A rank of 1 indicates a service area was highest on a calculated rate or percentage of an indicator and a rank of 26 indicates a service area was lowest. Where necessary, rankings have been adjusted to accommodate service areas tied with the same rate, thus maintaining a uniform range of 1 - 26. For example if two service areas are tied for the 10th ranking placement both are ranked as tenth, the 11th ranking is omitted and the 12th ranking position is given to the next highest service area rate or percentage.

- When interpreting the figures presented in this report the reader should be aware that many local variables interact within any service area to affect the indicator rate or percentage shown. For example, service areas vary considerably in their demographic and economic characteristics. Communities also differ in many other ways as, for instance, in communities where impaired driving is a priority, more police manpower and resources might be targeted there, ultimately affecting the service area's impaired driving rate.

Highlights:

- In general, no one particular service area stands out as being high across all report indicators, rather most service areas show a fluctuation in indicator rankings. A few service areas such as Drayton Valley and Medicine Hat consistently ranked near the bottom across indicators.

- Considered overall, service areas in AADAC's northern division are generally higher on SHIP indicators than southern and central division service areas. This suggests that substance consumption and related problems are generally more prevalent in Northern Alberta.

TABLE 1

RANKED ORDER SUMMARY TABLE OF SELECTED INDICATORS OF SUBSTANCE CONSUMPTION AND ABUSE FOR AADAC SERVICE AREAS 1990 (RANKING: 1 = HIGHEST RANK; 26 = LOWEST RANK)

Service Area	Table II*	Table III*	Table IV*	Table VI*	Table VII*	Table VIII*
NORTHERN DIVISION						
NW District						
Grande Prairie	16	10	20	14	11	9
High Level	17	3	26	9	17	2
High Prairie	15	6	2	2	3	3
Peace River	12	8	8	4	15	12
Slave Lake	8	18	21	1	6	1
Whitecourt	11	15	7	3	16	8
NE District						
Athabasca	10	9	16	8	8	7
Barrhead	24	20	3	19	20	22
Fort McMurray	5	23	23	7	1	5
Grand Centre	6	7	22	5	22	14
Lac La Biche	22	2	7	15	2	4
St. Paul	23	14	19	6	10	10
CENTRAL DIVISION						
Camrose	25	5	18	10	12	12
Drayton Valley	26	26	24	24	25	24
Edmonton	4	25	4	23	14	17
Edson	7	13	14	12	19	11
Hinton	1	19	24	13	4	16
Provost	2	11	10	25	26	25
Red Deer	3	21	15	11	5	18
Stettler	14	22	9	18	23	26
SOUTHERN DIVISION						
Brooks	18	4	13	17	7	20
Calgary	9	24	6	21	21	23
Crowsnest Pass	13	1	12	16	9	6
Drumheller	20	17	1	22	13	21
Lethbridge	19	12	5	20	18	15
Medicine Hat	21	16	11	26	23	13

Table II* - Dollar Retail Sales of Alcohol, 1990
Table III* - Hospital Separation Rate for Alcohol-Related Diagnosis, 1989/90
Table IV* - Hospital Separation Rate for Alcohol-Related Liver Disease, 1989/90
Table VI* - Rate of Impaired Driving and Fail to Blow Charges, 1990
Table VII* - Rate of Cannabis and Other Illicit Drug Possession Charges, 1990
Table VIII* - Rate of Sexual and Physical Assault Charges, 1990

TABLE 1 (Cont'd)

RANKED ORDER SUMMARY TABLE OF SELECTED INDICATORS OF SUBSTANCE CONSUMPTION AND ABUSE FOR AADAC SERVICE AREAS 1990 (RANKING: 1 = HIGHEST RANK; 26 = LOWEST RANK)

Service Area	Table IX*	Table X*	Table XI*	Table XII*	Table XIII*
NORTHERN DIVISION					
NW District					
Grande Prairie	15	9	6	15	21
High Level	4	1	24	11	2
High Prairie	3	3	1	5	4
Peace River	9	7	14	9	20
Slave Lake	2	12	25	1	5
Whitecourt	5	11	18	3	25
NE District					
Athabasca	7	8	2	20	14
Barrhead	21	2	5	18	24
Fort McMurray	1	26	21	6	1
Grand Centre	13	5	22	2	6
Lac La Biche	12	23	12	12	9
St. Paul	10	6	23	14	16
CENTRAL DIVISION					
Camrose	14	4	20	8	23
Drayton Valley	24	17	19	17	26
Edmonton	25	24	7	19	7
Edson	8	21	26	4	13
Hinton	19	22	10	7	11
Provost	22	19	16	22	3
Red Deer	17	10	4	10	19
Stettler	18	16	13	16	17
SOUTHERN DIVISION					
Brooks	16	25	11	21	15
Calgary	26	15	15	23	12
Crowsnest Pass	6	14	3	13	10
Drumheller	20	18	9	26	18
Lethbridge	11	13	8	25	8
Medicine Hat	23	20	17	24	22

Table IX* - Rate for Disturbing the Peace and Liquor Act Violation Charges, 1990
Table X* - Percent of Injury and Fatality Collisions Involving Alcohol, 1990
Table XI* - Rate of Prescriptions Dispensed for Medications, 1990
Table XII* - Rate of Persons Attending Alberta Impaired Driver's Courses, 1990/91
Table XII* - Rate of Admissions to AADAC and Funded Agency Facilities, 1990/91

2. ALCOHOL AND DRUG INDICATORS EXTERNAL TO AADAC

2.1 DOLLAR SALES OF ALCOHOLIC BEVERAGES FROM ALCB RETAIL OUTLETS (Table II)

Source:

Alberta Liquor Control Board Annual Report, 1990.

Notes:

- Sales from the Hinton area include sales from the Jasper ALCB store. This amounts to 45% of the total sales for the area.
- Sales for the Calgary area include sales from the Banff and Lake Louise ALCB stores. This amounts to 3.2% of the total sales for the area.
- ALCB warehouse sales for Calgary and St. Albert have been excluded for the Calgary and Edmonton service area calculations, but included in the provincial total calculations. This is because goods purchased from those two warehouses are distributed to many communities outside of the Calgary and Edmonton service area boundaries. Warehouse sales were close to $81 million in 1990 and accounted for 8% of total provincial sales. Free standing beer stores and wine boutiques sales are included in warehouse sales. As a result the provincial rate for wine, beer and total sales is much higher than service area or division rates.

Highlights:

- In general, per capita alcohol sales from ALCB outlets and warehouses, retail beer stores and private wine stores were fairly evenly distributed throughout the province.
- The Drayton Valley service area had the lowest per capita ALCB sales figures while Hinton had the highest. However, close to half of the Hinton area sales were from the Jasper ALCB store which undoubtedly derives much of its sales from tourism.

TABLE II

DOLLAR SALES OF SPIRITS, WINE AND BEER FROM ALCB RETAIL OUTLETS PER PERSON AGED 15 AND OLDER AADAC SERVICE AREAS 1990

Service Area	Spirits	Wine	Beer	Total	Rank Order (1 = Highest 26 = Lowest)
NORTHERN DIVISION	**$247.94**	**$ 43.78**	**$163.32**	**$455.04**	
NW District	**$249.42**	**$ 40.90**	**$158.74**	**$449.06**	
Grande Prairie	$ 231.86	$ 43.29	$ 149.06	$ 424.21	16
High Level	260.78	29.69	127.41	417.88	17
High Prairie	210.70	37.87	176.19	424.76	15
Peace River	269.82	40.83	161.34	471.99	12
Slave Lake	279.88	39.09	185.89	504.86	8
Whitecourt	271.99	43.55	172.77	488.31	11
NE District	**$247.53**	**$ 46.99**	**$168.87**	**$463.39**	
Athabasca	$ 281.40	$ 41.19	$ 169.11	$ 491.70	10
Barrhead	222.59	33.91	124.92	381.42	24
Fort McMurray	261.42	59.21	231.10	551.72	5
Grand Centre	265.17	68.45	204.05	537.67	6
Lac La Biche	217.53	43.21	137.75	398.49	22
St. Paul	238.02	32.15	119.58	389.75	23
CENTRAL DIVISION	**$206.66**	**$ 55.09**	**$272.94**	**$534.69**	
Camrose	$ 205.18	$ 36.80	$ 126.32	$ 368.30	25
Drayton Valley	156.42	23.44	99.82	279.60	26
Edmonton	191.49	59.02	302.53	553.04	4
Edson	276.00	50.77	184.91	511.68	7
Hinton	348.98	132.75	261.26	742.99	1
Provost	326.73	46.58	190.75	564.06	2
Red Deer	247.86	45.71	261.32	554.89	3
Stettler	269.27	30.67	125.54	425.48	14
SOUTHERN DIVISION	**$180.36**	**$ 63.35**	**$239.46**	**$483.17**	
Brooks	$ 243.40	$ 37.01	$ 137.36	$ 417.77	18
Calgary	173.71	70.24	259.38	503.33	9
Crowsnest Pass	243.02	57.81	156.67	457.50	13
Drumheller	235.55	32.44	146.49	414.48	20
Lethbridge	172.85	42.59	200.47	414.91	19
Medicine Hat	230.48	39.28	140.34	406.10	21
PROVINCE	**$ 226.12**	**$ 71.76**	**$ 257.23**	**$ 555.11**	

2.2 ALCOHOL-RELATED DISEASES
(Tables III & IV)

Source:

Alberta Health, Policy and Planning Services Division, Health Economics and Statistics Branch (Special Data Run)

Notes:

- All diagnoses are based on the International Classification of Diseases (Rev. 9).
- "Alcoholic Psychosis" includes: alcohol withdrawal delirium, alcohol amnestic syndrome, other alcoholic dementia, alcohol withdrawal hallucinations, idiosyncratic alcohol intoxication, alcoholic jealousy and other specified and unspecified alcohol psychosis.
- "Alcohol Dependence" includes: acute alcohol intoxication, and other unspecified alcohol dependence.
- "Alcohol Abuse" includes: drunkenness, excessive drinking of alcohol, hangover and inebriaty.
- "Toxic Effects" include: effects of ethyl, methyl and isopropyl alcohol; fusel oil and other specified and unspecified alcohol.
- "Other Alcoholic Liver Damage" includes Alcoholic Fatty Liver and Alcoholic Liver Disease Unspecified.
- These rates represent only persons admitted as inpatients to active or psychiatric care hospitals operating in the province. No emergency or outpatient data have been included.
- "Separations" are defined as the death or discharge of an inpatient. The same patient may be admitted and discharged with the same diagnosis more than once within the same year.
- These rates represent either the primary or secondary diagnosis for which the patient was admitted.
- Health disorders diagnosed as alcohol-related occur in relatively small numbers in relation to the total population, and tend to be erratic geographically and over time.

Highlights:

- The separation rate for alcohol-related, primary diagnosis admissions to hospital was highest for the Crowsnest Pass and lowest for the Drayton Valley service areas, but in general occurred uniformly throughout the province.
- The separation rate for alcohol-related liver disease admissions to hospital was highest for the Drumheller service area and lowest for the High Level service area.

TABLE III

SEPARATION RATE FOR ALCOHOL-RELATED PRIMARY AND SECONDARY DIAGNOSIS ADMISSIONS OF ALBERTA RESIDENTS TO ACTIVE AND PSYCHIATRIC CARE HOSPITALS; AADAC SERVICE AREAS 1989/90

(Rate per thousand population aged 20 years and older)

Service Area	Alcoholic Psychosis	Alcoholic Dependence	Alcohol Abuse	Toxic Effects	Total Rate	Rank Order (1 = Highest 26 = Lowest)
NORTHERN DIVISION	**0.99**	**4.61**	**1.64**	**0.42**	**7.66**	
NW District	**1.03**	**4.86**	**1.83**	**0.55**	**8.27**	
Grande Prairie	0.94	5.72	1.31	0.26	8.23	10
High Level	1.00	5.33	5.08	1.24	12.65	3
High Prairie	1.53	6.32	1.53	1.53	10.91	6
Peace River	1.33	5.15	2.02	0.35	8.85	8
Slave Lake	0.88	2.92	1.75	0.44	5.99	18
Whitecourt	0.61	4.34	1.30	0.61	6.86	15
NE District	**0.96**	**4.34**	**1.45**	**0.28**	**7.03**	
Athabasca	1.90	4.10	2.44	1.09	8.44	9
Barrhead	0.53	3.76	0.90	0.11	5.30	20
Fort McMurray	0.58	2.72	0.62	0.18	4.10	23
Grand Centre	1.06	7.41	1.41	0.14	10.02	7
Lac La Biche	2.16	6.85	4.00	0.54	13.55	2
St. Paul	1.07	3.90	1.82	0.27	7.06	14
CENTRAL DIVISION	**0.57**	**2.01**	**0.64**	**0.15**	**3.37**	
Camrose	1.36	7.76	1.44	0.37	10.93	5
Drayton Valley	0.39	1.23	0.23	0.10	1.95	26
Edmonton	0.54	1.33	0.51	0.11	2.49	25
Edson	0.51	3.60	3.09	0.00	7.20	13
Hinton	0.76	2.78	1.52	0.59	5.65	19
Provost	1.34	5.42	1.09	0.16	8.01	11
Red Deer	0.78	2.85	0.76	0.30	4.69	21
Stettler	0.74	2.38	1.15	0.08	4.35	22
SOUTHERN DIVISION	**0.67**	**2.46**	**0.71**	**0.14**	**3.98**	
Brooks	1.43	7.84	1.52	0.34	11.13	4
Calgary	0.54	1.50	0.54	0.12	2.70	24
Crowsnest Pass	3.16	11.60	1.44	0.10	16.30	1
Drumheller	0.92	4.46	0.65	0.27	6.30	17
Lethbridge	1.13	5.31	1.25	0.24	7.93	12
Medicine Hat	0.60	4.45	1.28	0.03	6.36	16
PROVINCE	**0.69**	**2.45**	**0.77**	**0.17**	**4.08**	

TABLE IV

SEPARATION RATE FOR ALCOHOL-RELATED LIVER DISEASE AS PRIMARY AND SECONDARY DIAGNOSIS ADMISSIONS TO ACTIVE CARE HOSPITALS AADAC SERVICE AREAS 1989/90

(Rate per thousand population aged 20 years and older)

Service Area	Alcoholic Hepatitis	Alcoholic Cirrhosis of Liver	Other Alcoholic Liver Damage	Total Rate	Rank Order (1 = Highest 26 = Lowest)
NORTHERN DIVISION	**0.15**	**0.28**	**0.11**	**0.54**	
NW District	**0.15**	**0.24**	**0.13**	**0.52**	
Grande Prairie	0.10	0.21	0.03	0.34	20
High Level	0.12	0.00	0.12	0.24	26
High Prairie	0.55	0.55	0.11	1.21	2
Peace River	0.06	0.35	0.46	0.87	8
Slave Lake	0.15	0.15	0.00	0.30	21
Whitecourt	0.26	0.17	0.09	0.52	17
NE District	**0.15**	**0.31**	**0.09**	**0.55**	
Athabasca	0.00	0.41	0.14	0.55	16
Barrhead	0.16	0.74	0.21	1.11	3
Fort McMurray	0.00	0.22	0.04	0.26	23
Grand Centre	0.28	0.00	0.00	0.28	22
Lac La Biche	0.54	0.18	0.18	0.90	7
St. Paul	0.16	0.21	0.05	0.42	19
CENTRAL DIVISION	**0.10**	**0.27**	**0.08**	**0.45**	
Camrose	0.03	0.29	0.19	0.51	18
Drayton Valley	0.03	0.16	0.06	0.25	24
Edmonton	0.09	0.24	0.74	1.07	4
Edson	0.13	0.39	0.13	0.65	14
Hinton	0.08	0.17	0.00	0.25	24
Provost	0.16	0.53	0.12	0.81	10
Red Deer	0.14	0.35	0.12	0.61	15
Stettler	0.16	0.66	0.00	0.82	9
SOUTHERN DIVISION	**0.11**	**0.28**	**0.07**	**0.46**	
Brooks	0.00	0.59	0.08	0.67	13
Calgary	0.07	0.17	0.70	0.94	6
Crowsnest Pass	0.10	0.58	0.00	0.68	12
Drumheller	0.44	0.82	0.16	1.42	1
Lethbridge	0.32	0.64	0.07	1.03	5
Medicine Hat	0.13	0.63	0.03	0.79	11
PROVINCE	**0.11**	**0.27**	**0.08**	**0.46**	

2.3 SUBSTANCE ABUSE-RELATED DEATHS

(Table V)

Source:

Alberta Health, Vital Statistics Division (Special Data Run)

Notes:

- This table was produced from data collected by Vital Statistics for the Health Units of Alberta. As the Health Unit boundaries do not correspond precisely to those of the AADAC service areas, only estimated rates for the three AADAC service divisions (i.e. north, central and south), were calculated.

- The table shows suicide rates, but it should be kept in mind that alcohol or drugs were not necessarily involved in all cases. However, as they are often implicated, these rates serve as rough indicators of substance abuse.

Highlights:

- The death rate for alcohol-related chronic liver disease and cirrhosis was very similar for all service divisions.

- The death rate for suicide was very similar for the northern and central service divisions and comparatively lower in the southern service division.

TABLE V

RATE OF SUBSTANCE ABUSE-RELATED DEATHS BY SELECTED CAUSES AADAC SERVICE DIVISIONS 1990/91

(Rate per thousand population aged 20 years and older)

DIVISION	CHRONIC LIVER DISEASE AND CIRRHOSIS	SUICIDE
NORTHERN DIVISION	0.07	0.28
CENTRAL DIVISION	0.11	0.24
SOUTHERN DIVISION	0.11	0.08
PROVINCE	0.10	0.18

2.4 ALCOHOL AND DRUG-RELATED CRIMINAL OFFENSES

(Table VI, VII, VIII, IX)

Source:

Alberta Solicitor General, Planning, Policy and Projects Branch, Law Enforcement Division, Law Enforcement Information System, (Special Data Run)

Notes:

- "Impaired Driving" includes impaired operation of a motor vehicle, boat, vessel or air craft.
- "Liquor Act Violations" include illegal production, possession, promotion, or altering of alcohol; illegal conveyance, or transport of alcohol; sales to, or possession by minors; minors in a licensed premises; sale of alcohol to intoxicated persons; sales after hours; conduct in licensed premises; and consumption in a public place. "Alcohol" under the Alberta Liquor Act refers to all types of alcohol: commercial, industrial and beverage.
- "Other Illicit Drug Possession" includes cocaine, heroin, restricted drugs and other drug categories.
- Data are the actual number of charges laid, as reported by RCMP and municipal police forces to Statistics Canada and correspond to the Criminal Code. These data may reflect variations in law enforcement practices and manpower by area. Comparing service areas may not be meaningful.
- With the exception of the impaired driving and illicit drug possession indicators, it is not known whether and to what extent alcohol or drugs were involved in other recorded offenses.
- The data do not reflect the outcome of reported cases in regards to their disposition by the courts. They only reflect the charges laid.

Highlights:

- The rate for impaired driving and failure or refusal to provide a blood or breath sample was very high for northern division service areas.
- The rate for illicit drug possession charges was highest in the Fort McMurray service area and lowest in the Provost service area, but generally occurred uniformly throughout the province.
- In general, sexual and physical assault charges were more prevalent in northern division service areas.
- Disturbing the peace and liquor act violation charges were higher for the northern division service areas.

TABLE VI

RATE FOR IMPAIRED DRIVING AND FAILURE/REFUSAL TO PROVIDE A BLOOD/BREATH SAMPLE; CHARGES LAID AADAC SERVICE AREAS 1990

(Rate per thousand population aged 15 years and older)

SERVICE AREA	IMPAIRED DRIVING	FAIL TO GIVE SAMPLE	TOTAL RATE	RANK ORDER (1 = highest 26 = lowest)
NORTHERN DIVISION	**32.22**	**2.22**	**34.44**	
NW District	**33.91**	**2.71**	**36.62**	
Grande Prairie	24.13	2.70	26.83	14
High Level	27.92	2.40	30.32	9
High Prairie	41.67	4.19	45.86	2
Peace River	34.99	2.02	37.01	4
Slave Lake	65.63	3.36	68.99	1
Whitecourt	43.19	2.54	45.73	3
NE District	**30.45**	**1.71**	**32.16**	
Athabasca	28.85	2.08	30.93	8
Barrhead	15.34	0.71	16.05	19
Fort McMurray	30.48	2.11	32.59	7
Grand Centre	34.65	2.10	36.75	5
Lac La Biche	25.74	0.47	26.21	15
St. Paul	33.13	2.14	35.27	6
CENTRAL DIVISION	**14.37**	**0.79**	**15.16**	
Camrose	27.95	2.10	30.05	10
Drayton Valley	11.19	0.32	11.51	24
Edmonton	11.10	0.56	11.66	23
Edson	26.75	1.95	28.70	12
Hinton	23.63	3.79	27.42	13
Provost	6.75	0.40	7.15	25
Red Deer	28.23	1.48	29.71	11
Stettler	17.64	0.74	18.38	18
SOUTHERN DIVISION	**12.66**	**1.17**	**13.83**	
Brooks	17.15	1.57	18.72	17
Calgary	12.69	1.30	13.99	21
Crowsnest Pass	23.33	1.54	24.87	16
Drumheller	11.34	1.03	12.37	22
Lethbridge	13.39	0.74	14.13	20
Medicine Hat	6.98	0.16	7.14	26
PROVINCE	**15.43**	**1.11**	**16.54**	

TABLE VII

RATE FOR CANNABIS AND OTHER ILLICIT DRUG POSSESSION; CHARGES LAID AADAC SERVICE AREAS 1990

(Rate per thousand population aged 15 years and older)

SERVICE AREA	CANNABIS POSSESSION	OTHER ILLICIT DRUG POSSESSION	TOTAL RATE	RANK ORDER (1 = highest 26 = lowest)
NORTHERN DIVISION	**2.85**	**0.18**	**3.03**	
NW District	**2.39**	**0.19**	**2.58**	
Grande Prairie	2.19	0.19	2.38	11
High Level	1.67	0.21	1.88	17
High Prairie	5.14	0.19	5.33	3
Peace River	1.88	0.15	2.03	15
Slave Lake	2.99	0.25	3.24	6
Whitecourt	1.77	0.23	2.00	16
NE District	**3.33**	**0.17**	**3.50**	
Athabasca	3.01	0.00	3.01	8
Barrhead	1.33	0.05	1.38	20
Fort McMurray	6.45	0.47	6.92	1
Grand Centre	1.11	0.06	1.17	22
Lac La Biche	5.30	0.16	5.46	2
St. Paul	2.75	0.09	2.84	10
CENTRAL DIVISION	**1.87**	**0.33**	**2.20**	
Camrose	2.26	0.02	2.28	12
Drayton Valley	0.69	0.00	0.69	25
Edmonton	1.73	0.42	2.15	14
Edson	1.49	0.11	1.60	19
Hinton	3.24	0.30	3.54	4
Provost	0.44	0.00	0.44	26
Red Deer	3.20	0.14	3.34	5
Stettler	1.11	0.00	1.11	23
SOUTHERN DIVISION	**1.24**	**0.18**	**1.42**	
Brooks	3.00	0.07	3.07	7
Calgary	1.12	0.16	1.28	21
Crowsnest Pass	2.99	0.00	2.99	9
Drumheller	2.11	0.10	2.21	13
Lethbridge	1.66	0.16	1.82	18
Medicine Hat	0.54	0.57	1.11	23
PROVINCE	**1.71**	**0.25**	**1.96**	

TABLE VIII

RATE OF SEXUAL AND PHYSICAL ASSAULT; CHARGES LAID AADAC SERVICE AREAS 1990

(Rate per thousand population aged 15 years and older)

SERVICE AREA	SEXUAL ASSAULT	PHYSICAL ASSAULT	TOTAL RATE	RANK ORDER (1 = highest 26 = lowest)
NORTHERN DIVISION	**2.88**	**18.94**	**21.82**	
NW District	**2.99**	**19.97**	**22.96**	
Grande Prairie	2.23	16.98	19.21	9
High Level	4.27	33.02	37.29	2
High Prairie	6.47	29.21	35.68	3
Peace River	1.42	10.45	11.87	12
Slave Lake	3.99	37.73	41.72	1
Whitecourt	3.46	16.24	19.70	8
NE District	**2.77**	**17.85**	**20.62**	
Athabasca	3.79	16.87	20.66	7
Barrhead	1.09	7.45	8.54	22
Fort McMurray	2.85	28.10	30.95	5
Grand Centre	2.90	14.14	17.04	14
Lac La Biche	4.06	28.71	32.77	4
St. Paul	3.46	15.71	19.17	10
CENTRAL DIVISION	**1.87**	**11.84**	**13.71**	
Camrose	2.43	16.44	18.87	12
Drayton Valley	1.30	3.70	5.00	24
Edmonton	1.94	12.53	14.47	17
Edson	1.61	17.45	19.06	11
Hinton	2.18	12.64	14.82	16
Provost	1.23	3.55	4.78	25
Red Deer	1.75	11.31	13.06	18
Stettler	0.44	3.62	4.06	26
SOUTHERN DIVISION	**1.37**	**8.54**	**9.91**	
Brooks	2.02	9.21	11.23	20
Calgary	1.20	6.89	8.06	23
Crowsnest Pass	2.31	18.63	20.94	6
Drumheller	1.47	7.56	9.03	21
Lethbridge	2.00	14.38	16.38	15
Medicine Hat	1.93	16.56	18.49	13
PROVINCE	**1.77**	**11.20**	**12.97**	

TABLE IX

RATE OF DISTURBING THE PEACE AND LIQUOR ACT VIOLATION; CHARGES LAID AADAC SERVICE AREAS 1990

(Rate per thousand population aged 15 years and older)

SERVICE AREA	DISTURBING THE PEACE	LIQUOR ACT VIOLATIONS	TOTAL RATE	RANK ORDER (1 = highest 26 = lowest)
NORTHERN DIVISION	**16.26**	**31.68**	**47.64**	
NW District	**11.93**	**34.24**	**46.17**	
Grande Prairie	17.38	16.33	33.71	15
High Level	8.02	47.19	55.21	4
High Prairie	17.79	39.58	57.37	3
Peace River	4.16	37.42	41.58	9
Slave Lake	11.83	72.35	84.18	2
Whitecourt	3.92	51.19	55.12	5
NE District	**20.81**	**28.98**	**49.79**	
Athabasca	8.44	34.84	43.28	7
Barrhead	4.61	16.05	20.66	21
Fort McMurray	63.42	32.79	96.21	1
Grand Centre	4.44	30.57	35.01	13
Lac La Biche	8.42	28.24	36.66	12
St. Paul	6.41	34.03	40.43	10
CENTRAL DIVISION	**2.57**	**10.12**	**12.69**	
Camrose	4.31	30.24	34.55	14
Drayton Valley	2.69	8.67	11.36	24
Edmonton	1.64	6.32	7.96	25
Edson	8.38	34.10	42.48	8
Hinton	6.10	16.32	22.42	19
Provost	3.45	15.00	18.45	22
Red Deer	6.16	19.09	25.25	17
Stettler	1.03	22.07	23.10	18
SOUTHERN DIVISION	**1.71**	**8.58**	**10.29**	
Brooks	4.57	27.34	31.91	16
Calgary	1.04	2.93	3.97	26
Crowsnest Pass	16.07	33.93	50.00	6
Drumheller	2.45	18.75	21.20	20
Lethbridge	4.08	33.67	37.75	11
Medicine Hat	1.04	16.56	17.60	23
PROVINCE	**3.68**	**11.78**	**15.46**	

2.5 ALCOHOL-RELATED TRAFFIC COLLISIONS

(Table X)

Source:

Alberta Transportation and Utilities, Planning and Statistics Branch, Motor Transport Services Division, (Special Data Run)

Notes:

- "Bodily Harm Collision" & "Fatal Collision" represent the number of collisions in which person(s) were killed, or injured, as a result of the incident. They do not represent the number of persons who sustained an injury, or were killed.
- These data may involve single or multiple vehicle collisions and therefore may involve more than one driver under the influence of alcohol.
- Accessibility to major highways, variations in traffic density and driving patterns greatly affect driver exposure to risk of collision. For these reasons, comparing dissimilar service areas may not yield meaningful results.

Highlights:

- The percent of injury and fatality causing collisions involving drivers who had consumed alcohol or were impaired, was generally higher for northern division service areas.

TABLE X

PERCENT OF INJURY AND FATALITY CAUSING COLLISIONS WHICH INVOLVED DRIVERS WHO HAD CONSUMED ALCOHOL OR WERE IMPAIRED AADAC SERVICE AREAS 1990

SERVICE AREA	PERCENT OF INJURY CAUSING COLLISIONS	PERCENT OF FATALITY CAUSING COLLISIONS	PERCENT OF INJURY & FATALITY COLLISIONS	RANK ORDER (1 = highest 26 = lowest)
NORTHERN DIVISION	**19.82%**	**26.83%**	**20.22%**	
NW District	**20.83%**	**34.04%**	**21.58%**	
Grande Prairie	18.63%	41.67%	19.46%	9
High Level	35.48	60.00	37.31	1
High Prairie	23.33	33.33	23.96	3
Peace River	19.55	50.00	20.86	7
Slave Lake	16.67	42.86	18.99	12
Whitecourt	21.30	0.00	19.33	11
NE District	**18.44%**	**17.14%**	**18.37%**	
Athabasca	21.31%	0.00%	20.63%	8
Barrhead	26.72	0.00	25.00	2
Fort McMurray	7.09	40.00	9.27	26
Grand Centre	22.35	0.00	21.59	5
Lac La Biche	12.00	25.00	12.96	23
St. Paul	22.05	12.50	21.48	6
CENTRAL DIVISION	**12.35%**	**27.89%**	**12.64%**	
Camrose	20.46%	50.00%	21.77%	4
Drayton Valley	16.49	28.57	17.31	17
Edmonton	11.04	25.93	11.23	24
Edson	15.96	0.00	15.46	21
Hinton	13.46	16.67	13.64	22
Provost	16.28	33.33	16.67	19
Red Deer	18.95	28.13	19.37	10
Stettler	16.67	33.33	17.46	16
SOUTHERN DIVISION	**17.23%**	**28.91%**	**17.63%**	
Brooks	9.30%	25.00%	10.00%	25
Calgary	17.37	32.35	17.79	15
Crowsnest Pass	17.71	25.00	18.00	14
Drumheller	15.70	33.33	16.92	18
Lethbridge	18.53	24.24	18.79	13
Medicine Hat	15.97	20.00	16.10	20
PROVINCE	**14.56%**	**28.01%**	**14.93%**	

2.6 TRIPLICATE (DRUG) PRESCRIPTION PROGRAM

(Table XI)

Source:

College of Physicians and Surgeons, Province of Alberta. Triplicate Prescription Program Information System (Special Data Run).

Notes:

- On April 1, 1986, the Triplicate Prescription Program was implemented in the province of Alberta, to assist in the prevention of the diversion of certain types of prescription medication for street use.
- The data presented here reflect all prescriptions dispensed in Alberta for drugs being monitored by the College of Physicians and Surgeons in 1990. The majority of medications prescribed in the province are not addressed by the TPP.
- "Opiates" include anilerdine, hydrocodone, hydromorphone, levorphanol, meperidine, morphine, normethadone, oxycodone and pentazocine generic class drugs.
- "Barbiturates" include butalbital and butalbital with codeine generic class drugs.
- "Stimulants" include methylphenidate generic class drugs.
- All generic classes of drugs were aggregated into the three broader categories of "opiate", "barbiturate" and "stimulant" class drugs with the assistance of a College of Physicians and Surgeons Consultant.

Highlights:

- Overall, 70% of the prescriptions dispensed were for opiate based drugs, 22% for barbiturate class drugs and 8% for stimulant class drugs.
- The rate of monitored prescriptions filled occurred uniformly throughout the province.
- The rate of monitored prescriptions filled was the highest in High Prairie and the lowest in Edson.

TABLE XI

RATE OF PRESCRIPTIONS DISPENSED FOR MEDICATIONS MONITORED BY THE TRIPLICATE PRESCRIPTION PROGRAM AADAC SERVICES AREAS 1990

(Rate per thousand population aged 15 years and older)

	OPIATES	BARBITURATES	STIMULANTS	TOTAL RATE	RANK ORDER (1 = Highest 26 = Lowest)
NORTHERN DIVISION	**46.22**	**10.10**	**2.72**	**59.04**	
NW District	**54.18**	**10.29**	**2.51**	**66.94**	
Grande Prairie	60.68	11.70	1.05	73.43	6
High Level	21.25	5.94	2.19	29.38	24
High Prairie	123.98	14.27	6.85	145.10	1
Peace River	44.47	9.48	3.75	57.70	14
Slave Lake	18.80	3.49	3.49	25.78	25
Whitecourt	37.11	10.70	1.62	49.43	18
NE District	**37.85**	**9.90**	**2.94**	**50.69**	
Athabasca	75.31	22.25	5.01	102.57	2
Barrhead	57.50	11.97	4.37	74.84	5
Fort McMurray	28.41	8.75	2.34	39.50	21
Grand Centre	25.57	6.73	1.48	33.78	22
Lac La Biche	53.67	3.43	3.43	60.53	12
St. Paul	19.74	8.83	2.42	30.99	23
CENTRAL DIVISION	**48.30**	**16.79**	**5.18**	**70.27**	
Camrose	27.66	11.41	1.69	40.76	20
Drayton Valley	38.39	7.05	1.39	46.83	19
Edmonton	48.74	18.05	6.18	72.97	7
Edson	19.17	4.25	1.72	25.14	26
Hinton	39.73	26.94	1.28	67.95	10
Provost	42.51	8.38	1.63	52.52	16
Red Deer	62.08	16.62	4.09	82.79	4
Stettler	42.44	16.38	1.55	60.37	13
SOUTHERN DIVISION	**40.06**	**11.67**	**6.05**	**57.78**	
Brooks	46.07	10.71	4.12	60.90	11
Calgary	37.78	11.35	6.15	55.28	15
Crowsnest Pass	69.83	13.33	3.68	86.84	3
Drumheller	41.97	17.33	9.52	68.82	9
Lethbridge	51.28	13.01	6.69	70.98	8
Medicine Hat	37.26	10.60	2.76	50.62	17
PROVINCE	**44.57**	**13.89**	**5.28**	**63.74**	

3. AADAC ALCOHOL AND DRUG INDICATORS

3.1 ALBERTA IMPAIRED DRIVER'S COURSE ATTENDANCE

(Table XII)

Source:

AADAC Planning Ahead and IMPACT Information Systems

Notes:

- These figures represent those persons who have attended either a Planning Ahead course or IMPACT program.
- Planning Ahead is a course for first time impaired driving offenders, while the IMPACT program is for repeat impaired driving offenders. Attendance at either is a mandatory requirement for driver licence reinstatement.
- These data may not represent the total number of drivers arrested for impaired driving in any given year. Convicted drivers may attend the course at any time before having their suspended driver's license reinstated. Also, due to legal proceedings, the length of time between arrest and conviction may vary.

Highlights:

- The rate of attendance for Alberta impaired driver's courses was highest for the Slave Lake service area and lowest for the Drumheller service area.
- The rate of attendance for Alberta impaired driver's courses was much lower for southern service areas.

TABLE XII

RATE OF ATTENDANCE FOR "PLANNING AHEAD" AND "IMPACT" IMPAIRED DRIVER'S COURSES AADAC SERVICE AREAS 1990/91

(Rate per thousand population aged 15 years and older)

SERVICE AREAS	RATE OF PLANNING AHEAD ATTENDERS	RATE OF IMPACT ATTENDERS	TOTAL RATE	RANK ORDER (1 = highest 26 = lowest)
NORTHERN DIVISION	**5.18**	**0.80**	**5.98**	
NW District	**5.42**	**0.82**	**6.24**	
Grande Prairie	3.96	0.86	4.82	15
High Level	4.58	0.73	5.31	11
High Prairie	5.52	1.24	6.76	5
Peace River	5.32	0.56	5.88	9
Slave Lake	11.33	1.00	12.33	1
Whitecourt	7.31	0.69	8.00	3
NE District	**4.92**	**0.77**	**5.69**	
Athabasca	3.54	0.49	4.03	20
Barrhead	3.51	0.85	4.36	18
Fort McMurray	5.71	0.82	6.53	6
Grand Centre	7.16	0.86	8.02	2
Lac La Biche	4.06	1.09	5.15	12
St. Paul	4.46	0.57	5.03	14
CENTRAL DIVISION	**3.78**	**0.68**	**4.46**	
Camrose	4.77	1.14	5.91	8
Drayton Valley	4.16	0.46	4.62	17
Edmonton	3.53	0.64	4.17	19
Edson	6.31	0.69	7.00	4
Hinton	5.11	0.83	5.94	7
Provost	3.22	0.25	3.47	22
Red Deer	4.54	0.86	5.40	10
Stettler	3.69	1.03	4.72	16
SOUTHERN DIVISION	**2.81**	**0.53**	**3.34**	
Brooks	3.30	0.37	3.67	21
Calgary	2.79	0.56	3.35	23
Crowsnest Pass	4.44	0.68	5.12	13
Drumheller	2.45	0.34	2.79	26
Lethbridge	2.72	0.47	3.19	25
Medicine Hat	2.90	0.36	3.26	24
PROVINCE	**3.64**	**0.65**	**4.29**	

3.2 ADMISSIONS TO AADAC AND FUNDED AGENCY FACILITIES

(Table XIII)

Source:

AADAC Policy and Program Analysis
AADAC Institutions and Funded Agencies

Notes:

- Total client admission rates represent both client and collateral admissions for AADAC and agencies funded by AADAC facilities within a service area. This includes admissions to detoxification, outpatient or residential treatment facilities. Total client admission rates are calculated per thousand total population.

- For adult clients, admission rates are calculated per thousand population 18 years and older.

- For adolescent clients, admission rates are calculated per thousand population 12 - 17 years of age.

- For collateral clients, admission rates are calculated per thousand total population.

- The location of certain residential treatment facilities is artificially inflating the admission rates for certain service areas as undoubtedly many of the admissions are for clients residing outside of the service area.

- Admissions to Action North Recovery Centre in High Level, Pastew Place Detoxification Centre in Fort McMurray, Bonnyville Indian Metis Rehabilitation Centre in Grand Centre, Henwood Treatment Centre in Edmonton, Walter A. "Slim" Thorpe Recovery Centre in Provost, Jimmy Wolf Tail Memorial Society in Crowsnest Pass, and Lander Treatment Centre and Foothills Alcohol Action Facility in Lethbridge all contribute greatly to the admission totals for their respective AADAC service areas.

- In addition, service areas will have varying priorities for type of treatment services delivered. This often reflects the different needs and demographic makeup of communities.

Highlights:

- Client admissions to AADAC and Funded Agency Facilities was 12.35 per thousand total population for the entire province. There was considerable variation between service areas for client admission rates.

- At the provincial level, approximately 86% of total clients were adults, 4% adolescents and 10% collaterals. Again, there was much variation between service areas for client type.

TABLE XIII

RATE OF ADMISSION TO AADAC AND FUNDED AGENCY TREATMENT FACILITIES FOR ADULT, ADOLESCENT AND COLLATERAL CLIENTS AADAC SERVICE AREAS 1990/91

SERVICE AREAS	ADULT CLIENT ADMISSIONS PER 1,000 18+	ADOLESCENT CLIENT ADMISSIONS PER 1,000 12-17	COLLATERAL ADMISSIONS PER 1,000 TOTAL POP.	TOTAL CLIENT ADMISSIONS PER 1,000 TOTAL POP.	RANK
NORTHERN DIVISION	**15.48**	**10.40**	**1.10**	**12.50**	
NW District	**12.32**	**9.60**	**0.70**	**9.81**	
Grande Prairie	5.61	6.59	0.22	5.19	21
High Level	45.03	11.56	1.88	28.59	2
High Prairie	22.94	29.30	0.41	18.64	4
Peace River	6.12	5.84	0.63	5.38	20
Slave Lake	23.02	15.71	2.15	17.98	5
Whitecourt	3.05	1.16	0.67	2.83	25
NE District	**18.80**	**11.30**	**1.53**	**15.41**	
Athabasca	11.54	4.30	0.58	9.58	14
Barrhead	2.63	3.79	1.37	3.59	24
Fort McMurray	43.19	14.47	0.36	30.46	1
Grand Centre	24.60	3.53	1.20	16.85	6
Lac La Biche	14.11	44.76	1.30	15.32	9
St. Paul	5.48	10.87	3.91	8.81	16
CENTRAL DIVISION	**16.64**	**5.22**	**1.50**	**13.96**	
Camrose	4.04	4.75	0.92	4.15	23
Drayton Valley	1.98	1.72	0.26	1.80	26
Edmonton	20.01	5.51	1.55	16.65	7
Edson	11.27	4.31	1.83	9.88	13
Hinton	10.01	7.74	2.68	10.45	11
Provost	27.37	1.42	2.96	22.15	3
Red Deer	6.66	5.39	1.09	6.28	19
Stettler	5.51	9.41	3.32	8.15	17
SOUTHERN DIVISION	**12.49**	**4.19**	**1.06**	**10.53**	
Brooks	5.93	11.73	4.01	9.24	15
Calgary	12.37	3.18	0.85	10.23	12
Crowsnest Pass	17.43	2.60	2.34	15.04	10
Drumheller	4.85	4.18	2.44	6.29	18
Lethbridge	19.09	6.16	1.46	15.42	8
Medicine Hat	4.27	9.38	1.20	5.12	22
PROVINCE	**14.74**	**5.52**	**1.27**	**12.35**	

4. APPENDICES

4. POPULATION AND OTHER DEMOGRAPHIC INDICATORS AADAC SERVICE AREAS 1990

(Table 4.1 and 4.2)

Source:

Alberta Treasury, Bureau of Statistics, Statistical Services and Statistical Programs and Analysis (Special Data Runs).

Notes:

- The percent of 12-17 year olds by AADAC service area is included because this is the primary target group defined for AADAC's prevention campaign for adolescents.
- The ratio of males to females, expressed as a percent here, is a common demographic indicator.
- The total population of an area divided by the square kilometer tract of land it occupies is known as a "population density" indicator.
- Average reported household income represents total gross income reported for the 1986 taxation year, divided by the total number of households filing an income tax return within each AADAC service area.

4.1 PERCENTAGE OF TOTAL POPULATION BY SELECTED AGE GROUPINGS AND TOTAL POPULATION IN THOUSANDS AADAC SERVICE AREAS 1990

SERVICE AREA	0-9 Yrs.	10-19 Yrs.	20-29 Yrs.	30-39 Yrs.	40-49 Yrs.	50-64 Yrs.	65+ Yrs.	TOTAL Population (in thous.)
NORTHERN DIVISION								**282.3**
NW District								**146.8**
Grande Prairie	18.6%	16.9%	17.6%	18.1%	11.3%	10.4%	7.1%	59.2
High Level	26.7	21.1	18.7	14.4	8.0	7.4	3.7	15.5
High Prairie	20.0	17.8	17.4	14.7	10.1	11.4	8.6	14.8
Peace River	18.7	18.0	16.0	16.7	11.5	11.6	8.0	27.2
Slave Lake	23.4	19.9	19.6	16.2	10.0	7.0	3.8	12.1
Whitecourt	19.3	16.5	18.2	18.1	11.2	10.4	6.5	18.0
NE District								**135.5**
Athabasca	16.5%	15.4%	14.1%	14.5%	11.7%	15.3%	12.5%	10.3
Barrhead	16.3	16.0	14.2	14.8	11.7	13.8	13.3	27.8
Fort McMurray	19.4	18.1	19.2	21.8	13.6	6.2	1.7	35.9
Grand Centre	23.4	17.8	16.9	16.3	10.1	9.3	6.4	24.1
Lac La Biche	21.2	18.7	17.3	14.4	10.2	10.5	7.8	9.2
St. Paul	16.8	16.8	14.6	13.1	10.4	14.1	14.3	28.2
CENTRAL DIVISION								**1149.1**
Camrose	18.5%	16.1%	14.6%	14.9%	10.9%	12.1%	12.8%	57.4
Drayton Valley	17.4	16.5	14.7	17.3	12.5	12.6	9.1	46.8
Edmonton	15.9	13.9	18.3	18.8	12.6	11.9	8.7	811.6
Edson	19.3	16.3	16.8	19.1	11.0	11.0	6.6	12.0
Hinton	17.6	16.0	19.3	21.0	12.2	9.9	3.9	18.0
Provost	17.4	16.0	14.7	16.5	11.2	11.7	12.5	37.2
Red Deer	17.1	15.1	16.6	17.7	11.6	11.7	10.2	148.3
Stettler	15.8	15.9	14.1	15.1	11.0	13.5	14.6	17.8
SOUTHERN DIVISION								**1040.1**
Brooks	18.1%	16.7%	16.7%	17.4%	11.2%	10.6%	9.3%	18.2
Calgary	15.8	13.2	18.3	20.5	12.9	11.4	7.9	795.8
Crowsnest Pass	15.8	16.3	14.1	16.2	12.0	13.1	12.5	15.4
Drumheller	16.1	15.0	14.2	16.0	11.2	13.0	14.4	26.7
Lethbridge	17.1	16.0	15.7	15.6	11.0	12.1	12.5	127.0
Medicine Hat	15.5	14.9	15.9	17.3	11.1	12.5	12.8	57.4
PROVINCE	**16.6%**	**14.5%**	**17.3%**	**18.6%**	**12.2%**	**11.6%**	**9.1%**	**2471.5**

4.2 SELECTED DEMOGRAPHIC INDICATORS. AADAC SERVICE AREAS 1990

	PERCENT OF POPULATION 12 - 17 YRS.	PERCENT OF MALES TO FEMALES	TOTAL POP/ SQ KM	AVERAGE REPORTED HOUSEHOLD INCOME (1986)
NORTHERN DIVISION	**10.4%**	**51.4/48.6%**	**0.68**	**$ 33,069**
NW District	**10.6%**	**51.9/48.1%**	**0.60**	**$ 31,997**
Grande Prairie	10.0%	51.6/48.4%	1.45	$ 34,052
High Level	12.9	51.71/48.3	0.16	30,883
High Prairie	10.6	51.3/48.7	0.92	29,307
Peace River	10.7	51.1/48.9	0.69	31,727
Slave Lake	11.6	52.3/47.7	0.29	33,061
Whitecourt	9.6	52.4/47.6	1.51	32,952
NE District	**10.2%**	**50.9/49.1%**	**0.79**	**$ 34,085**
Athabasca	9.0%	51.4/48.6%	0.88	$ 26,917
Barrhead	9.5	51.2/48.8	2.24	27,668
Fort McMurray	10.8	51.7/48.3	0.34	55,333
Grand Centre	10.6	48.8/51.2	3.74	35,559
Lac La Biche	11.4	52.1/47.9	0.43	31,761
St. Paul	9.8	51.0/49.0	2.23	27,271
CENTRAL DIVISION	**8.4%**	**50.1/49.9%**	**8.65**	**$ 34,117**
Camrose	9.5%	50.0/50.0%	5.32	$30,618
Drayton Valley	9.9	51.9/48.1	5.71	34,450
Edmonton	8.1	49.9/50.1	51.51	37,005
Edson	9.6	51.5/48.5	0.95	33,468
Hinton	9.4	52.5/47.5	0.70	39,124
Provost	9.5	50.1/49.9	2.89	35,149
Red Deer	8.9	50.1/49.9	4.30	33,185
Stettler	9.6	50.4/49.6	1.44	29,940
SOUTHERN DIVISION	**8.1%**	**49.9/50.1%**	**9.16**	**$ 33,568**
Brooks	9.8%	51.2/48.8%	2.05	$ 33,732
Calgary	7.7	49.9/50.1	25.62	40,419
Crowsnest Pass	9.4	50.6/49.4	2.20	33,428
Drumheller	9.0	49.9/50.1	1.21	30,945
Lethbridge	9.6	49.7/50.3	5.67	31,597
Medicine Hat	8.7	49.6/50.4	2.58	31,286
PROVINCE	**8.5%**	**50.1/49.9%**	**3.73**	**$ 33,494**

4.3 GLOSSARY OF TERMS

COLLATERAL CLIENT	-	Individuals who are admitted to receive assistance in dealing with some else's substance abuse problem.
CONSUME	-	To eat or drink especially in great quantity.
DEMOGRAPHICS	-	Population statistics with reference to size and density distribution, and vital statistics.
DETOXIFICATION SERVICES	-	AADAC non-medical facilities that provide a short-term, safe and supervised environment in which intoxicated persons may withdraw from the effects of acute intoxication. Referrals are provided to on-going treatment centres.
IMPAIRED	-	Having an alcohol concentration in the blood of more than 80 milligrams per 100 millilitres of blood (.08 per cent).
INPATIENT	-	A person who is admitted to an institution for the purpose of receiving diagnostic or treatment services in a residential setting and, to whom a bed is allocated.
OUTPATIENT	-	A person who receives diagnostic or treatment services from an institution, but not as an inpatient.
OUTPATIENT SERVICES	-	AADAC outpatient offices provide alcohol and drug counselling, information and referral services, community education and family support services to anyone with an addiction problem.
PER CAPITA	-	Frequency of occurrence of an event divided by the total population, or a segment of it.
PERCENT RATIO OF MALES TO FEMALES	-	The proportion of males to females in a population.
PRIMARY DIAGNOSIS	-	The dominant disease or condition for which a person is admitted to hospital.
RATE	-	A fraction where the numerator is the number of events of interest and the denominator, or base, is a class of people or condition. A rate is often expressed by some convenient constant, (e.g. per 1000 population).

RESIDENTIAL SERVICES	-	Institutions that provide specialized, intensive residential program services within a protected and supportive environment where clients live on the premises.
SECONDARY DIAGNOSIS	-	A disease or condition which is contributing to a person's ill health, but is not the primary reason a person was admitted to hospital.
SEPARATION	-	The discharge or death of an inpatient of a hospital.
TOTAL RATE	-	The total of several related indicators in the same table.